DOCUMENT MANAGEMENT SYSTEM

Doc# NSCS-M-P-7094-11
Title: Cake Thickness
Issue Dt: 12/04/1997
Revision Dt:07/23/2018 Review Interval:12
Cat: Quality Doc Type: SOP
Auth:
Desc: Cake Thickness
Loc: Midwest - Utilities-Midwest - Plant Maintenance-Midwest-Gary Works

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Purpose: The purpose of the test is to monitor press performance and provide the Operator some additional reference only information. The Operator only has limited control over the cake thickness, hence, it is not a process controlled variable.

STEPS	**PROCEDURES**
Process Overview	The sludge cake thickness test is performed by the SDW Operator on each sludge cycle. The test can tell the Operator that: - the filter cloths may need cleaned or replaced; - the sludge pumps are not working properly; - the membrane air system is not working properly; and - a membrane or plate may be broken.
Test Procedure Sample Selection	This test is both visual and measurement-oriented. First, the Operator selects a piece of sludge cake he believes is representative of the cake being removed from the machine.
Measuring	After selecting a sample, the Operator measures the cake thickness with a standard metric tape measure or metric ruler. No special calibration of the ruler is required as the information is for reference only.
Data Recording	After measuring the sludge thickness, record the data on the SDW Turn Report Form #7094-02.
Corrective Actions	See the following SOPs for additional details on press performance and tests. • NSCS-M-P-7094-01 (pH Corrective Actions) • NSCS-M-P-7094-02 (Filter Presses) • NSCS-M-P-7094-06 (pH Measurement) • NSCS-M-P-7094-07 (Percent Solids Test) • NSCS-M-P-7094-16 (Filter Cloth Replacement and Plate Clean) [redacted] If cake thickness is low, check press operation. If unable to correct the low cake thickness, record it on the SDW Turn Report Form #7094-02 and notify the Manager. Be sure to read the Process Overview section of this S.O.P.